IT Unit 3

Topic 2

# Ch 3, Data Analytics: Drawing Conclusions, Part 2

**Identifying patterns and relationships between data**, 152-165

1. What is the purpose of using statistics when working with large data sets?

*Convert large quantities of raw data into small, informative, meaningful summaries. Allow patterns & relationships to be identified.*

1. List the 3 most useful statistical concepts from table 3.7, p 152.

**Basic statistics**

1. Distinguish between the three methods of calculating an average.
2. What is the purpose of the standard deviation?

**Correlation and causality**, p 156

1. Why do you need to be careful when looking at patterns in data in terms of cause and effect?

**Data visualisations, p 157**

1. What are data visualisations used for?

**Queries and searches,** p 159

1. How can queries, searches, filtering and sorting be used when analysing large data sets?

**Conditional formatting,** p 164

1. Explain the process of conditional formatting.